SONY

Trinitron Colour TV

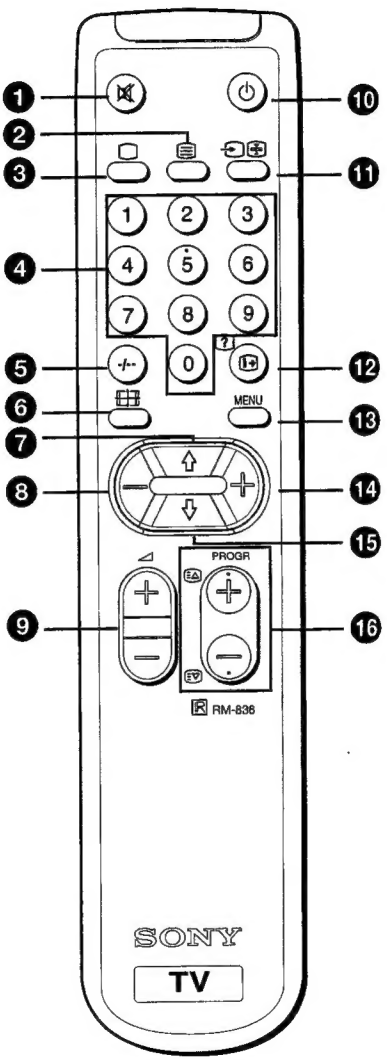
Operating Instructions

GB

HiBlack **Trinitron**

KV-21M3
KV-21T3

©1997 by Sony Corporation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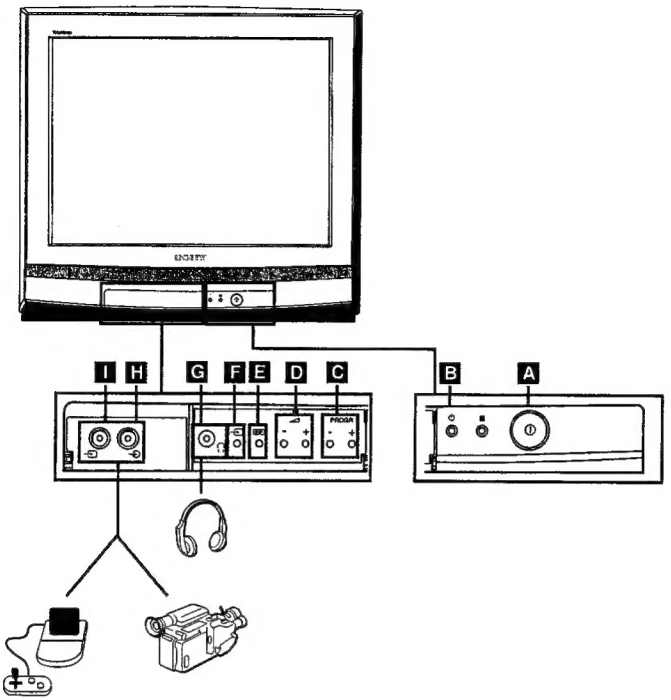
MENU
PROGR
RM-836
SONY
TV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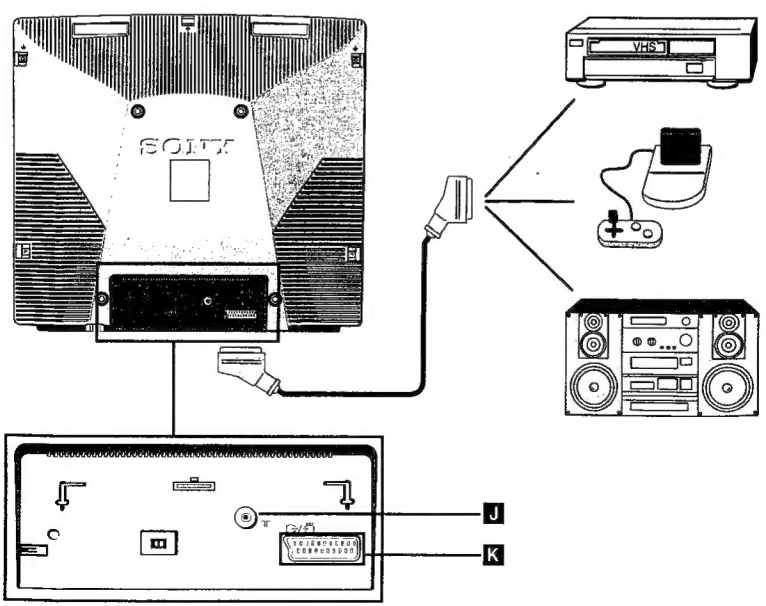
VHS
J
K

Safety Information

All televisions operate on extremely high voltages. To prevent fire or an electric shock, please follow the safety procedures below.

For your own safety, never open the cabinet. Refer servicing to qualified personnel only.

For General Safety

- Do not expose the TV to rain or other moisture.
- Do not open the rear cover.

For Safe Installation

- Do not block or cover the ventilation openings. For ventilation, leave a space of at least 5 cm. all around the set.
- Do not install the TV in hot, humid or excessively dusty places.
- Do not install the TV where it may be exposed to mechanical vibrations.

For Safe Operations

- Do not operate the TV on anything but 220-240v AC, 50 Hz.
- Unplug the TV if any liquid or solid object falls in it and have it checked immediately.
- Unplug the TV if you are not going to use it for several days.
- When unplugging the TV, pull it out by the plug, do not pull on the power cord.

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GB

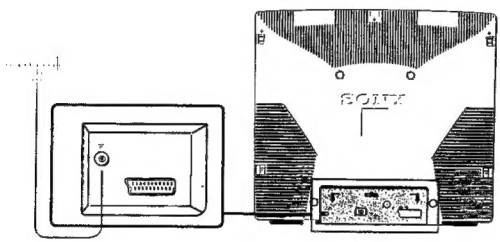
Please open the flap at the front and at the back of the Instruction Manual for illustrations of the TV set and the Remote Commander. Letters in boxes refer to the buttons on the TV set, numbers in circles to the buttons on the Remote Commander.

Step 1: Connecting the Aerial

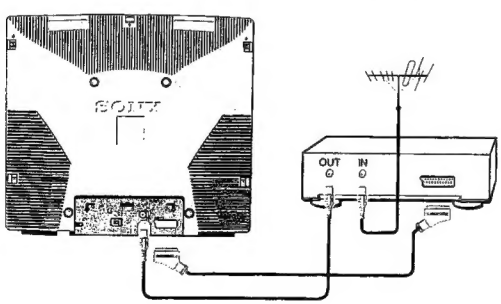
(If you connect a VCR, skip to step 2).

Connect an external aerial to the socket ⊤ J.

Where an external aerial is not available connect the indoor aerial supplied:



Step 2: Connecting a VCR



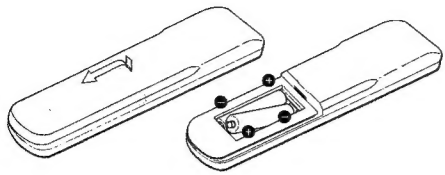
We recommend that you tune in the signal to programme number "0".

For details see "Presetting Channels Manually" on page 26.

Step 3: Connecting the Mains Plug

Connect the mains plug of the TV set to the electrical outlet (220-240 V AC, 50 Hz).

Step 4: Inserting the Batteries into the Remote Commander

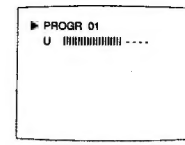


Always remember to dispose of used batteries in an environmental friendly way.

Step 5: Remote Commander Overview

Refer to Symbol	Effect	Refer to Page
❶ 🔇	Sound on/off button	23
❷ ☰	Teletext on button	30
❸ ▭	TV button / TV power on Teletext off button	23 30
❹ 1... 9, 0	Number buttons	23
❺ -/--	Double digit entering button	23
❻ ▦	Screen Format	23
❼, ❽, ❿, ⓯	MENU: Cursor buttons to operate Menu functions TELETEXT: Fastext / TOP Text buttons	24 30
❾ ◿ +/-	Volume control	23
❿ ⏻	Standby button	23
⓫ ⇥ ▣	Input mode button Teletext: Freezing the subpage	31 30
⓬ ⓘ+ ?	On screen display button Teletext: reveal button	23 30
⓭ MENU	Menu on/off button	24
⓰ PROGR +/- ▲, ▼	Programme buttons Teletext: Page up/down buttons	23 30

Step 6: Presetting Channels Automatically



TV searches for all available channels. If manual tuning is preferred see Menu option - Presetting Channels Manually on page 26.

1 Depress power switch ⏻ **A** on TV set.

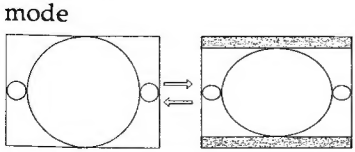
2 Press and hold ⏭ **E** on TV set for 2 seconds. Auto tuning starts and screen shows.

When Auto tuning stops, the programme position 1 is displayed.

TV Operation

This section explains functions used whilst watching TV. Most operations are carried out using the Remote Commander (numbers in circles). All basic functions are also available on the TV set (letters in boxes).

To	Press
Switch on	• ⏻ A on TV
Switch off temporarily	• ⏻ 10 *TV is now in standby mode, ⏻ indicator B on TV lights.* **Auto Standby** (only in TV mode): *After 30 minutes without a TV signal and without pressing any button, the TV switches automatically into standby mode.*
Switch on again	• ▢ 3, PROGR +/- 16 C or any number button 4
Switch off completely	• ⏻ A on TV *To save energy we recommend switching off completely when TV is not in use.*
Select programmes	• PROGR +/- 16 C or number buttons 4 *For double digit numbers press -/-- 5 then the number e.g. For 23, press -/-- 5 then 2 and 3.*
Display the programme number	• i+ 12 *Press again to make programme number disappear.*
Adjust the volume	• 🔊+/- 9 D
Mute the sound	• 🔇 1 *Press again to restore sound.*
View video input	• ⇥ 11 F *Press ▢ 3 to return to TV programme.*
View RGB input (e.g. PLAYSTATION)	• Press ⇥ 11 F twice. RGB ⇥ will appear on screen. *Press ▢ 3 to return to TV programme.*
View programmes in 16:9 mode	• ▭ 6 *Press again to return to 4:3 mode.*



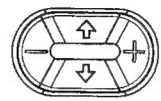
Use the following buttons on Remote Commander to control Menu screen.

1 Press MENU ⓭ to switch the Menu Screen on/off.

2 Use the coloured buttons as follows:

Green ❼
Scroll up

Red – ❽
decrease/select



Yellow + ⓮
increase/confirm(OK)

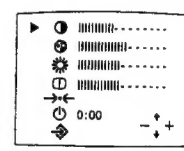
Blue ⓯
Scroll down

Adjusting the Picture

1 Press MENU ⓭.

2 Press green ❼ or blue ⓯ button to select the item you wish to change.

Symbol	Item	- Effect	+
◑	Picture	Less	More
❸	Colour	Less	More
☼	Brightness	Darker	Brighter
◫	Sharpness	Softer	Sharper



3 Press red ❽ or yellow ⓮ button to change levels.

4 Press MENU ⓭ to return to normal TV screen.

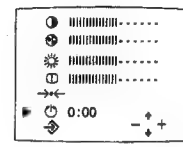
To reset to factory preset picture levels, press green ❼ or blue ⓯ button to select →•← and press yellow (OK) ⓮ button.

Using the Sleep Timer

The TV may be set to switch to the standby mode automatically after a length of time chosen by you. You may set the time in 30 minutes steps up to 4 hours.

1 Press MENU ⓭.

2 Press green ❼ or blue ⓯ button to select ⏻



3 Press red ❽ or yellow ⓮ button to set time delay.
0.00 (OFF) 0.30 1.00 1.30 .... 4.00

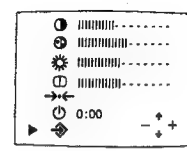
4 Press MENU ⓭ to return to normal TV screen.
When watching TV, press ⓘ ⓬ to display time remaining.

Presetting Channels Manually

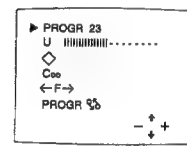
Up to 100 programme positions are available for presetting channels.

1 Press MENU ⓭.

2 Press green ❼ or blue ⓯ button to select ⇨ and press yellow (OK) ⓮ button.



3 Select programme number using PROGR +/- ⓰ C or the number buttons ❹.



4 Press green ❼ or blue ⓯ button to select tuning bar (IIIII...) and press red ❽ or yellow ⓮ button to start channel search. When a channel is found the tuning bar stops moving and you see the picture.

5 If you want to store, press green ❼ or blue ⓯ button to select ◇ and press yellow (OK) ⓮ button. If you don't want, press red ❽ or yellow ⓮ button to continue search.

6 Repeat steps 3 to 5 for all other channels.

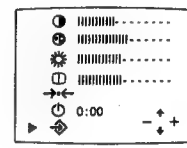
7 Press MENU ⓭ to return to normal TV screen.

Skipping Programme Positions

You can skip unused programme positions when selecting channels with the PROGR +/- ⑯ C buttons. You can still select them, however, using the number buttons ❹.

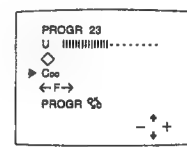
1 Press MENU ⑬.

2 Press green ❼ or blue ⑮ button to select ⇨ and press yellow ⑭ button.



3 Select programme number you want to skip using PROGR +/- ⑯ C button or number buttons ❹.

4 Press green ❼ or blue ⑮ button to select Coo and press yellow (OK) ⑭ button.



5 Press green ❼ or blue ⑮ button to select ◇ and press yellow (OK) ⑭ button to store.

6 Repeat steps 3 to 5 for other unused programme positions.

7 Press MENU ⑬ to return to normal TV screen.

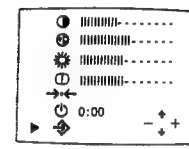
Fine-Tuning Channels

You can fine tune a stored channel.

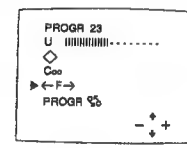
1 Select the channel you wish to fine tune.

2 Press MENU ⓭.

3 Press green ❼ or blue ⓯ button to select ⇨ and press yellow (OK) ⓮ button.



4 Press green ❼ or blue ⓯ button to select ←F→ and use red ❽ or yellow ⓮ button to adjust tuning.



5 Press green ❼ or blue ⓯ button to select ◇ and press yellow (OK) ⓮ button to store.

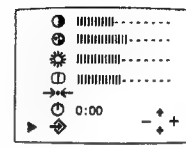
6 Press MENU ⓭ to return to normal TV screen.

Exchanging Programme Positions

After tuning you may wish to rearrange the programme positions.

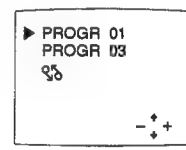
1 Press MENU ⓭.

2 Press green ❼ or blue ⓯ button to select ⇨ and press yellow (OK) ⓮ button.



3 Press green ❼ or blue ⓯ button to select PROGR and press yellow (OK) ⓮ button.

4 Press red ❽ or yellow ⓮ button to select the first programme position.



5 Press the blue ⓯ button.

6 Press the red ❽ or yellow ⓮ button to select the second programme position.

7 Press blue ⓯ button to select and press yellow (OK) ⓮ button to exchange.

8 Repeat steps 4 to 7 for other programme positions.

9 Press MENU ⓭ to return to normal TV screen.

Viewing Teletext

Teletext is an information service broadcast by TV stations.

1 Select the channel which carries the teletext service you wish to receive.

2 Press ☰ ❷ to switch on teletext.

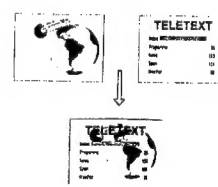
3 Input three digits for the page number using the programme number buttons ❹ or ▲/▼ ⓰ (next page/previous page).

4 Press ▢ ❸ to switch off teletext.

Teletext errors may occur if the broadcasting signals are weak

Using Other Teletext Functions

Superimposing teletext on the TV



Press ☰ ❷ once in teletext mode or twice in TV mode to superimpose teletext on the TV screen.
Press ☰ ❷ again to cancel superimposing.

Freezing a teletext subpage

Press ⊜ ⓫ (HOLD) to freeze the subpage. Freezing the page prevents the information that is displayed from being updated.
Press ⊜ ⓫ to cancel HOLD and allow update to continue.

Revealing concealed information (eg: answers to a quiz).

Press ? ⓬ to reveal information.
Press again to conceal the information.

Using colour buttons to access pages (Fastext)

When the colour coded menu appears at the bottom of a page, press the colour button (red, green, blue or yellow) ❽❼⓯⓮ to access the corresponding page.

Using 21-pin Connector

Your TV has one 21-pin connector K on the rear of the set.
You can connect optional audio or video equipment to this connector, such as a VCR, video games or a video disc player.

1 Press ⏎ 11 F to view the video input signal.

2 Press ⏎ 11 F again to view RGB/PLAYSTATION signal (RGB ⏎ will appear on screen).

3 Press ⏎ 11 F or ▢ 3 to return to normal TV operation.

Using the Connectors on the front

Your TV has two connectors (phono jacks) (⏎ video I, ⏎ audio H) on the front of the set. You can connect e.g. a video game to these connectors.

1 Press ⏎ 11 F to view the video input signal.

2 Press ⏎ 11 F or ▢ 3 to return to normal TV operation.

Note: Make sure not to switch on the equipments connected to the 21-pin connector K and the front connectors H, I at the same time.

Connecting Headphones

Plug in the headphones to the ∩ G socket on the front of the TV set.
The sound from the speaker is now muted.

Troubleshooting

Here are some simple solutions to the problems which affect the picture and sound.

Problem	Solution
No picture, screen is dark, no sound	• Plug the TV in. • Press ⏻ A on the TV. • If ⏻ indicator B is on press ▭ 3 or the programme number 4 on the remote commander. • Check the aerial connection. • Check that the video source is on. • Turn the TV off for 3 or 4 seconds and then turn it on again using ⏻ A.
Poor or no picture (screen is dark, sound is good)	• Press MENU 13 and adjust brightness picture and colour balance level.
Good picture, no sound	• Adjust the volume ◢ +/– 9 D. • Disconnect any headphones. • If 🔇 is displayed on the screen, press 🔇 1.
No colour on colour programmes	• Press MENU 13 and adjust colour balance. • Press MENU 13 and reset to factory settings.
Distorted picture when changing programmes or selecting teletext	• Turn off the equipment connected to the 21-pin connector K.
Remote commander does not function	• Replace the batteries.

- **If you continue to have these problems, have your TV serviced by qualified personnel.**
- **NEVER open the casing yourself.**

Specifications

TV system
B/G/H

Colour system
PAL, SECAM

Channel coverage
VHF: E2-E12
UHF: E21-E69
HYPER: S1-S41

Picture tube
Hi-Black Trinitron
Approx 55cm (21 inches) (Approx 51cm picture measured diagonally), 100° deflection

Inputs
21-pin connector (CENELEC standard) including audio/video input, RGB input

Front connectors:
Video input (phono jack)
Audio input (phono jack)

Outputs
Headphones jack - minijack (mono)

Sound output:
5W (music power)
4W (RMS)

Power consumption
58W

Dimensions (wxhxd)
Approx. 518x474x488mm

Weight
Approx. 20 kg

Accessories supplied
RM-836 Remote Commander (1)
IEC designated batteries (2)

Other features
KV-21T3D: Teletext, Fastext, TOP-Text

Design and specifications are subject to change without notice.